

CLAIMS

What is claimed is:

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1. An image display apparatus for displaying multi-slice images corresponding to cross-sections of a subject in multiple display areas on a single display screen, the apparatus comprising:
- means for deforming a display format of each display area; and
 - means for changing the display format of one of the display areas to change a relationship between the image in the one display area with an image in a display area adjacent to the one display area.
2. The image display apparatus of claim 1 further comprising means for overlapping adjacent display areas on the single display screen.
3. The image display apparatus of claim 2 further comprising means for assigning a different opacity to each display area.
4. The image display apparatus of claim 1 further comprising:
- means for assigning a different opacity to each display area; and
 - means for arranging each display area with a different opacity on a three-dimensional image reconstructed with previously acquired data.
5. A method for displaying multi-slice images corresponding to cross-sections of a subject in multiple display areas on a single display screen, the apparatus comprising:
- deforming a display format of each display area; and

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changing the display format of one of the display areas to change a relationship between the image in the one display area with an image in a display area adjacent to the one display area.

6. The method of claim 5 further comprising overlapping adjacent display areas on the single display screen.

7. The method of claim 6 further comprising assigning a different opacity to each display area.

8. The method of claim 5 further comprising:
assigning a different opacity to each display area; and
arranging each display area with a different opacity on a three-dimensional image reconstructed with previously acquired data.

9. A computer-readable medium having executable instructions for performing a method comprising:
deforming a display format of each of a plurality of display areas for displaying on a single screen, each display area displaying a multi-slice image corresponding to a cross-section of a subject; and
changing the display format of one of the display areas to change a relationship between the image in the one display area with an image in a display area adjacent to the one display area.

- 1 10. The computer-readable medium of claim 9 having further executable instructions
2 comprising overlapping adjacent display areas on the single display screen.
- 1 11. The computer-readable medium of claim 10 having further executable instructions
2 comprising assigning a different opacity to each display area.
- 1 12. The computer-readable medium of claim 9 having further executable instructions
2 comprising:
3 assigning a different opacity to each display area; and
4 arranging each display area with a different opacity on a three-dimensional image
5 reconstructed with previously acquired data.
- 1 13. A computer system comprising:
2 a processor;
3 a memory coupled to the processor through a bus; and
4 a display process executed from the memory to cause the processor to deform a
5 display format of each of a plurality of display areas and to change the display format of
6 one of the display areas each display area, wherein the plurality of display areas are
7 operable for displaying on a single display screen with each display area displaying a
8 multi-slice image corresponding to a cross-section of a subject.
- 1 14. The computer system of claim 13, wherein the display process further causes the
2 processor to overlap adjacent display areas for displaying on the single display screen.

1 15. The computer system of claim 14, wherein the display process further causes the
2 processor to assign a different opacity to each display area.

1 16. The computer system of claim 13, wherein the display process further causes the
2 processor to assign a different opacity to each display area and to arrange each display
3 area with a different opacity on a three-dimensional image reconstructed with previously
4 acquired data.

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